

Flight Scientist Report
Friday 08/21/2020 ACTIVATE RF26

Flight Type: Statistical Survey Flight – ZIBUT to northeast point (38.3N, 69.5W)
Flight Route: ZIBUT to northeast point (38.3N, 69.5W)

Special Notes:

We changed the final waypoint after takeoff and that was executed easily since they knew about the plan in advance to potentially do that.

Some cirrus during flight and King Air maneuvered a bit to avoid cirrus.

Didn't see any significant SO₄ plume that was forecasted to be present today

King Air

Laser issue at beginning of flight but quickly remedied.

Chat wasn't working all flight.

5 dropsondes

Camera stopped mid-flight

Falcon

2 full cloud modules, 2 full clear modules, two modules that were estimated to be half cloudy

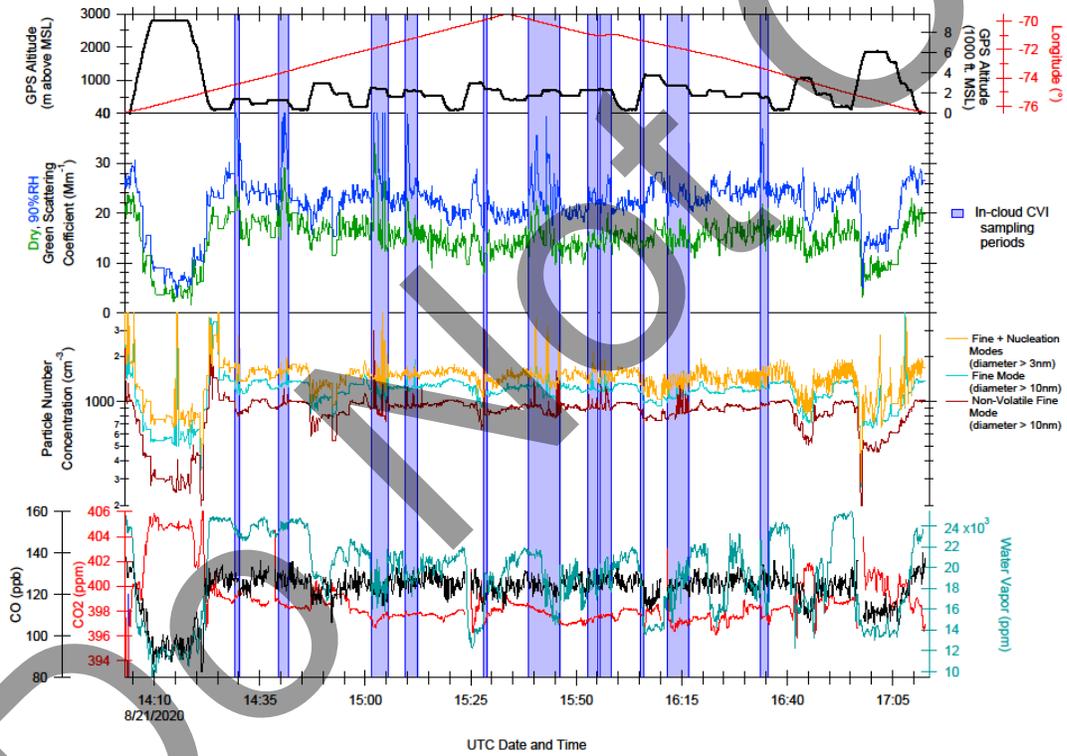
Instruments worked fine.

No cloudwater since clouds had low LWC

Camera worked all flight

Cabin temperature is high which can affect some LARGE instruments

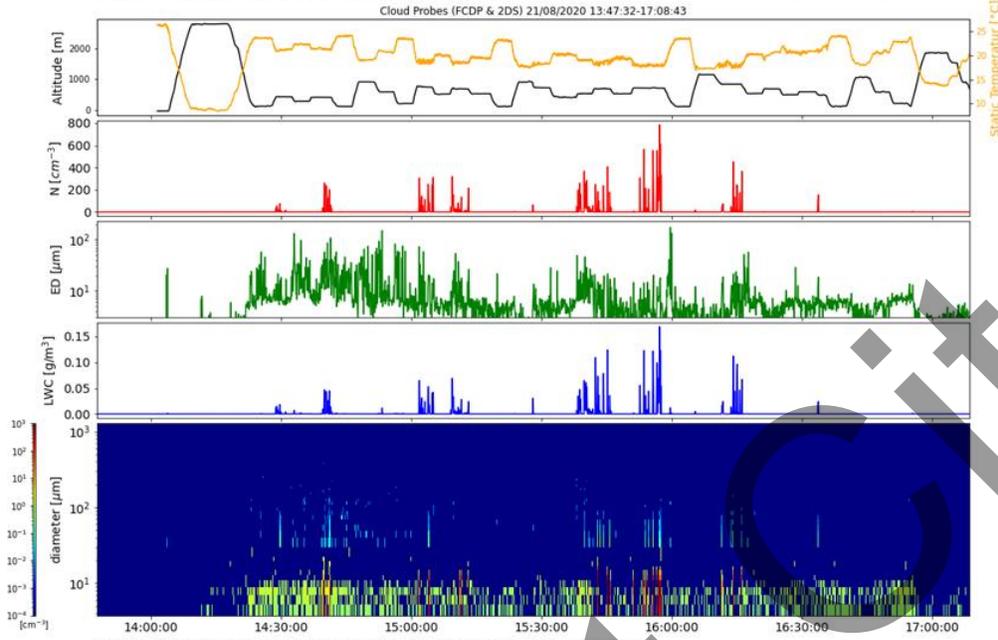
Rich Moore Quicklook Images:



Quicklook ACTIVATE Cloud Probes (FCDP & 2DS)

preliminary data, only for quicklook use

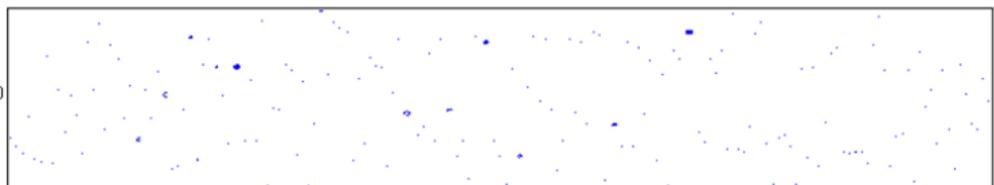
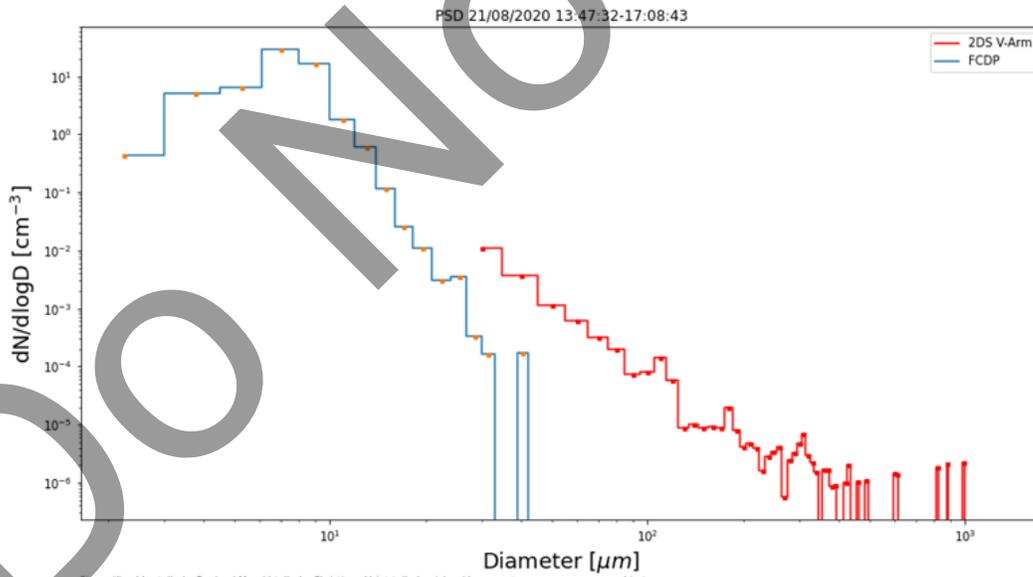
Simon Kirschler, Raphael Märkl, Christiane Voigt, Richard Moore, Ewan Crosbie



PSD ACTIVATE

preliminary data, only for quicklook use

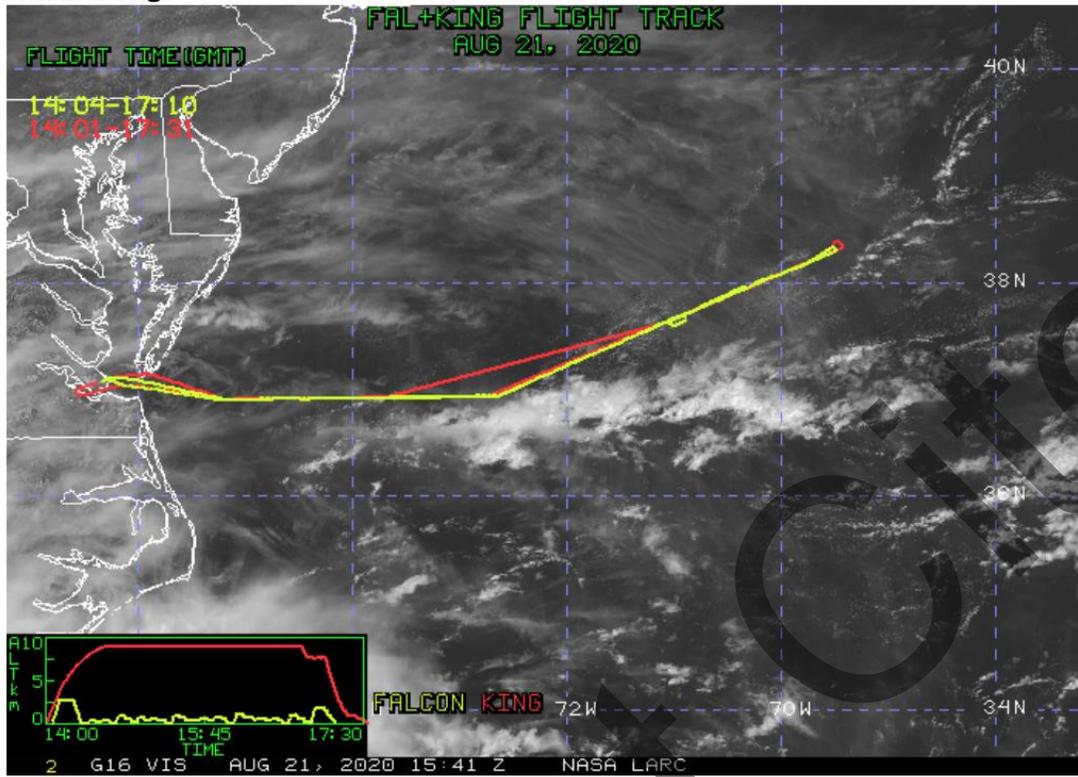
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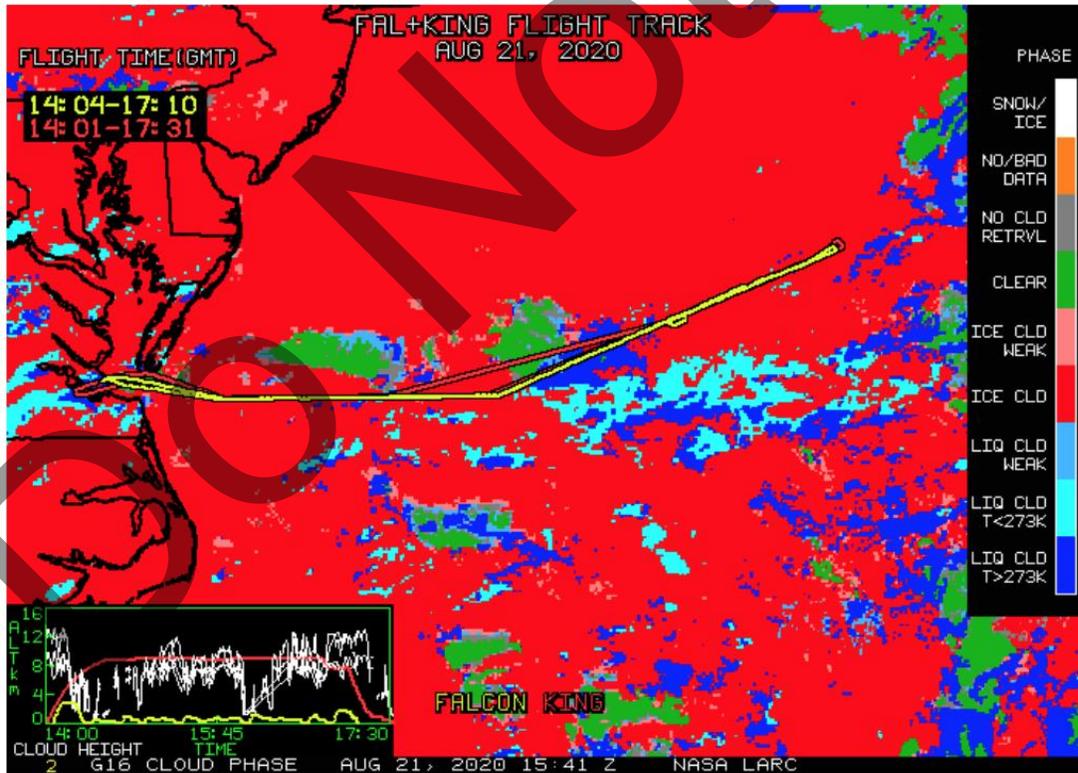
NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 26, 15:41 UTC Aug 21, 2020

Do Not Cite!

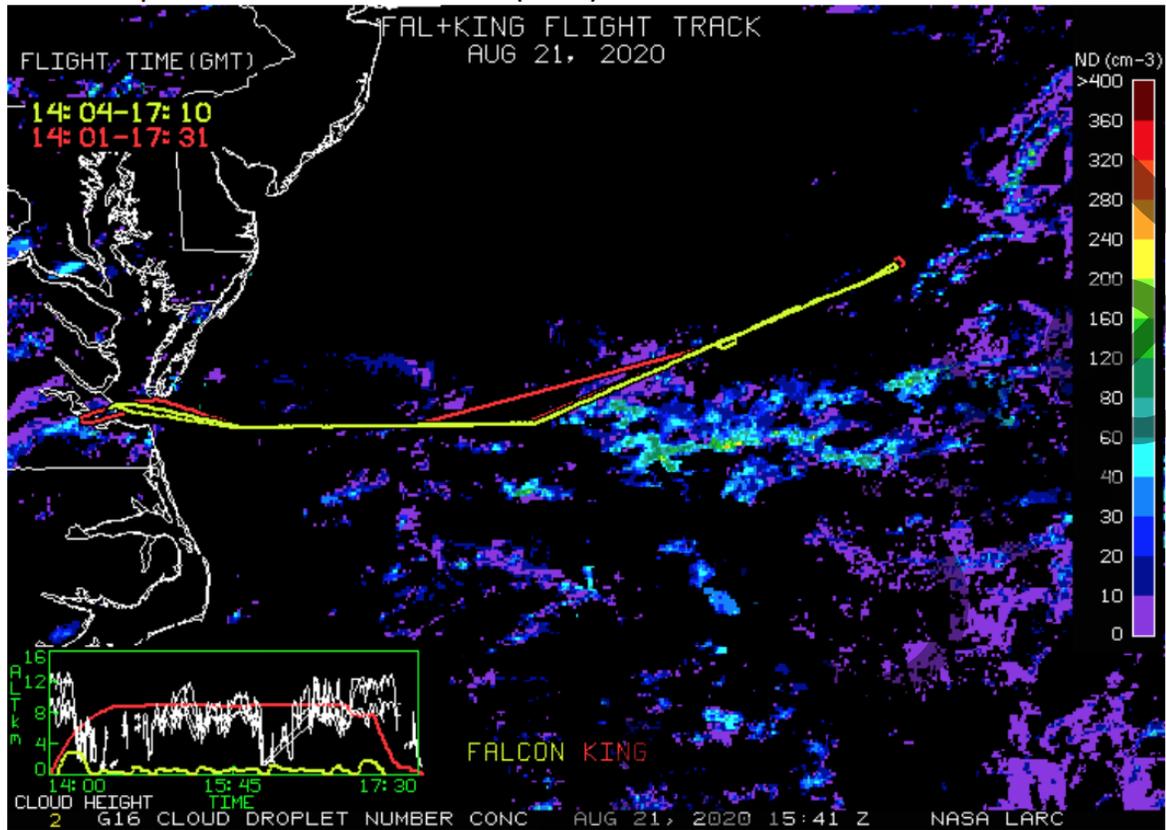
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

